

GROUNDWATER MONITORING REPORT FOURTH QUARTER 2005

**FORMER GASAMAT #953
3185 SANTA ROSA AVENUE
SANTA ROSA, CALIFORNIA**



GEOCON
CONSULTANTS, INC.

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

PREPARED FOR

**GASAMAT OIL CORPORATION OF COLORADO
3223 ARAPAHOE AVENUE
BOULDER, COLORADO**

GEOCON PROJECT NO. E8299-06-01

NOVEMBER 2005

GEOCON

CONSULTANTS, INC.

ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS



Project No. E8299-06-01

November 30, 2005

Mr. Cliff Ives
County of Sonoma Department of Health Services
Environmental Health Division
475 Aviation Boulevard, #220
Santa Rosa, California 95403

Subject: GROUNDWATER MONITORING REPORT
FOURTH QUARTER 2005
FORMER GASAMAT #953
3185 SANTA ROSA AVENUE
SANTA ROSA, CALIFORNIA

Dear Mr. Ives:

Geocon has prepared the *Groundwater Monitoring Report Fourth Quarter 2005* for the Former Gasamat #953 site. The report contains details of field services and laboratory analytical results.

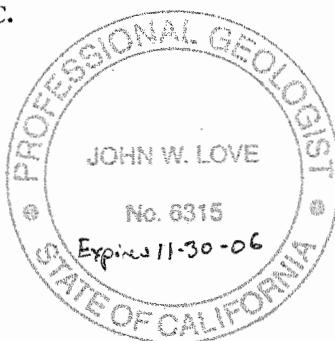
Mr. Gallagher's authorization to submit this report is enclosed. Please contact the undersigned if you have any questions or comments.

Sincerely,

GEOCON CONSULTANTS, INC.

John Love, PG
Sr. Project Scientist

JL:RWD:rjk



Richard Day, CEG, CHG
Regional Manager

- (1) Addressee
- (1) RWQCB – North Coast Region
- (1) Client
- (1) UST Cleanup Fund

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FOURTH QUARTER 2005 GROUNDWATER MONITORING REPORT

1.0 INTRODUCTION

On behalf of Gasamat Corporation of Colorado, Geocon has performed quarterly groundwater monitoring for the Former Gasamat Station No. 953 located at 3185 Santa Rosa Avenue, Santa Rosa, Sonoma County, California (Figure 1). The quarterly groundwater sampling was performed in response to the County of Sonoma Department of Health Services (DHS) letter dated October 3, 2005.

1.1 Background

In 1998 the site existed as a Gasamat gasoline station and had four underground storage tanks (USTs) containing gasoline. Two of the tanks were 8,000-gallons in capacity and the other two were 10,000 gallons in capacity.

In October 1998, a subsurface investigation was conducted in conjunction with the facility upgrade of the fuel storage and delivery system. Ten soil borings were advanced adjacent to the USTs and associated product piping. Results of the investigation indicated that subsurface soil and groundwater had been impacted by petroleum hydrocarbon compounds, including methyl tertiary butyl ether (MTBE). The primary source of the contamination appeared to be a release near the south end of UST #3 (see Figure 2).

In November 1998, 16 additional soil borings were advanced to assess the lateral extent of impacted soil and groundwater beneath the site and adjacent property to the south (3219 Santa Rosa Avenue, known as Henry's Used Car Lot). As a result of the October and November 1998 investigations, four monitoring wells (MW-1 through MW-4) and two extraction wells (EW-1 and EW-2) were constructed in December 1998. Monitoring wells MW-1 and MW-2 were constructed on the Gasamat property, and MW-3 and MW-4 were constructed on the Henry's Used Car Lot property.

In November 1999, monitoring well MW-5 was constructed to provide qualitative data associated with a dual-phase extraction pilot test scheduled for extraction well EW-2 in December 1999. The only well located within a relatively close proximity of EW-2 prior to the construction of MW-5 was extraction well EW-1.

In December 1999, the pilot test was conducted at extraction well EW-2. The results of the pilot test indicated that subsurface soil and groundwater conditions were favorable towards the selection of dual-phase extraction as a remediation method at the site.

In September 2002, monitoring wells MW-6 and MW-7 were constructed to further define the lateral extent of contamination. Active remediation had not yet been conducted at the site because negotiation was underway to fund the remediation project under the State's pay-for-performance program, and the new monitoring wells (MW-6 and MW-7) would be necessary to evaluate the effectiveness of the proposed remediation system for future cleanup reimbursement purposes. The pay-for performance reimbursement mechanism was later abandoned due to regulatory costs associated with the disposal of treated groundwater.

Groundwater monitoring has been conducted at the site from 1998 through early 2004. In February 2004, monitoring wells MW-3 and MW-4 were destroyed to facilitate redevelopment of 3219 Santa Rosa Avenue for the site's new owner, Redwood Credit Union. Quarterly groundwater monitoring has resumed at the site as directed by the DHS.

2.0 QUARTERLY GROUNDWATER MONITORING

Quarterly groundwater sampling was conducted on October 20, 2005.

2.1 Water Level Measurements and Groundwater Flow Direction

Prior to groundwater sample collection, depth to groundwater was measured in each well using a Solinst electronic sounding tape. The depth to groundwater ranged from 9.93 feet below the top of the well casing in MW-6 to 10.32 feet in MW-5.

Well construction details for each monitoring well are presented in Table 1. Historical depth to groundwater measurements for each monitoring well are presented in Table 2.

The groundwater flow direction beneath the site, as shown on Figure 3, is towards the south. The gradient ranges from 0.003 feet per foot (ft/ft) beneath the most of the property to 0.008 ft/ft near the south portion of the site and immediate offsite area.

2.2 Groundwater Sampling Procedures

Monitoring wells were purged using a disposable polyethylene bailer, and the extraction wells were purged using a centrifugal pump equipped with disposable polyethylene tubing. A minimum of three well casing volumes of groundwater were removed from each well prior to sample collection. Purged groundwater was monitored for temperature, pH and conductivity to insure that groundwater samples were representative of the aquifer formation. The well purge process was considered complete when these parameters had stabilized. After the water level in each well had recovered at least 80 percent of its pre-purge volume a groundwater sample was collected for laboratory analysis. Groundwater samples were collected using disposable polyethylene bailers equipped with volatile organic compound (VOC) sample ports designed to minimize aeration of groundwater samples during transfer from the bailer to the sample containers. One groundwater sample was also collected from one onsite domestic-use well (WW-1). The sample was collected from the spigot located a few feet from the well head.

Groundwater samples were containerized in 40-milliliter glass vials preserved with HCl, and delivered under chain-of-custody protocol to Entech Analytical Labs, Inc., a state of California certified laboratory located in Santa Clara, California. Copies of the field data sheets are provided in Appendix A.

2.3 Groundwater Sample Analyses

Groundwater samples collected from the monitoring and extraction wells were analyzed for total petroleum hydrocarbon compounds as gasoline (TPHg) benzene, toluene, ethylbenzene, xylenes (BTEX), and MTBE following EPA Test Method 8260B. The water sample collected from WW-1 was also analyzed for trichloroethene (TCE) following EPA Test Method 8260B.

2.4 Groundwater Sample Results

Target analyte concentrations in groundwater samples collected from wells MW-2 and EW-1 were less than laboratory reporting limit concentrations, except toluene. Toluene was reported at concentrations of 0.99 and 0.85 micrograms per liter ($\mu\text{g/l}$) in the MW-2 and EW-1 groundwater samples; however, toluene was also reported in the laboratory method blank at a similar concentration (0.81 $\mu\text{g/l}$). The presence of toluene at concentrations above the reporting limit in groundwater samples collected from wells MW-1, MW-2, MW-7, EW-1, and domestic well WW-1, which historically do not contain toluene, indicates the compound is not likely present above the reporting limit concentration of 0.50 $\mu\text{g/l}$ in these samples based on the method blank detection.

TPHg was detected at concentrations above the reporting limit of 0.025 milligrams per liter (mg/l) in groundwater samples collected from MW-1, MW-5, MW-6, and EW-2. Detected TPHg concentrations ranged from 0.057 mg/l in MW-5 to 13 mg/l in the groundwater samples collected from MW-6 and EW-2.

Benzene and MTBE were detected in groundwater samples collected from MW-5, MW-6 and EW-2, all positioned around the south end of UST #3. Benzene concentrations ranged from 1.3 $\mu\text{g/l}$ in MW-5 to 2,300 $\mu\text{g/l}$ in MW-6. MTBE was also reported in the MW-7 groundwater sample at a concentration of 6.2 $\mu\text{g/l}$.

TPHg and TCE were reported at concentrations of 0.052 mg/l and 43 $\mu\text{g/l}$, respectively, in the water sample collected from WW-1.

Historical groundwater sample results are presented in Table 2.

2.5 Waste Disposal

Purge water generated during the Fourth Quarter 2005 sample event was transported to the Geocon warehouse in Livermore, California, for subsequent disposal.

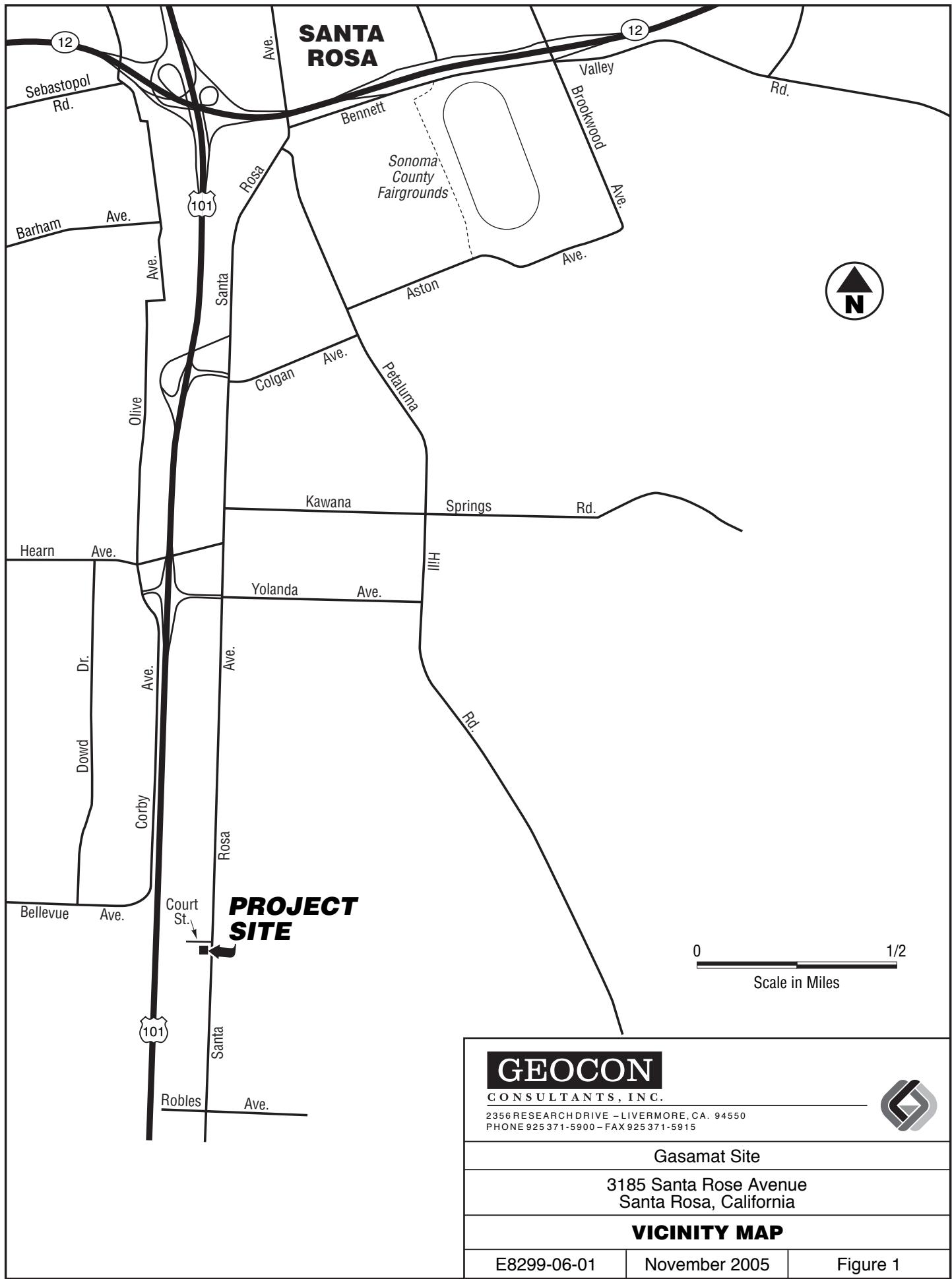
3.0 CONCLUSIONS AND RECOMMENDATIONS

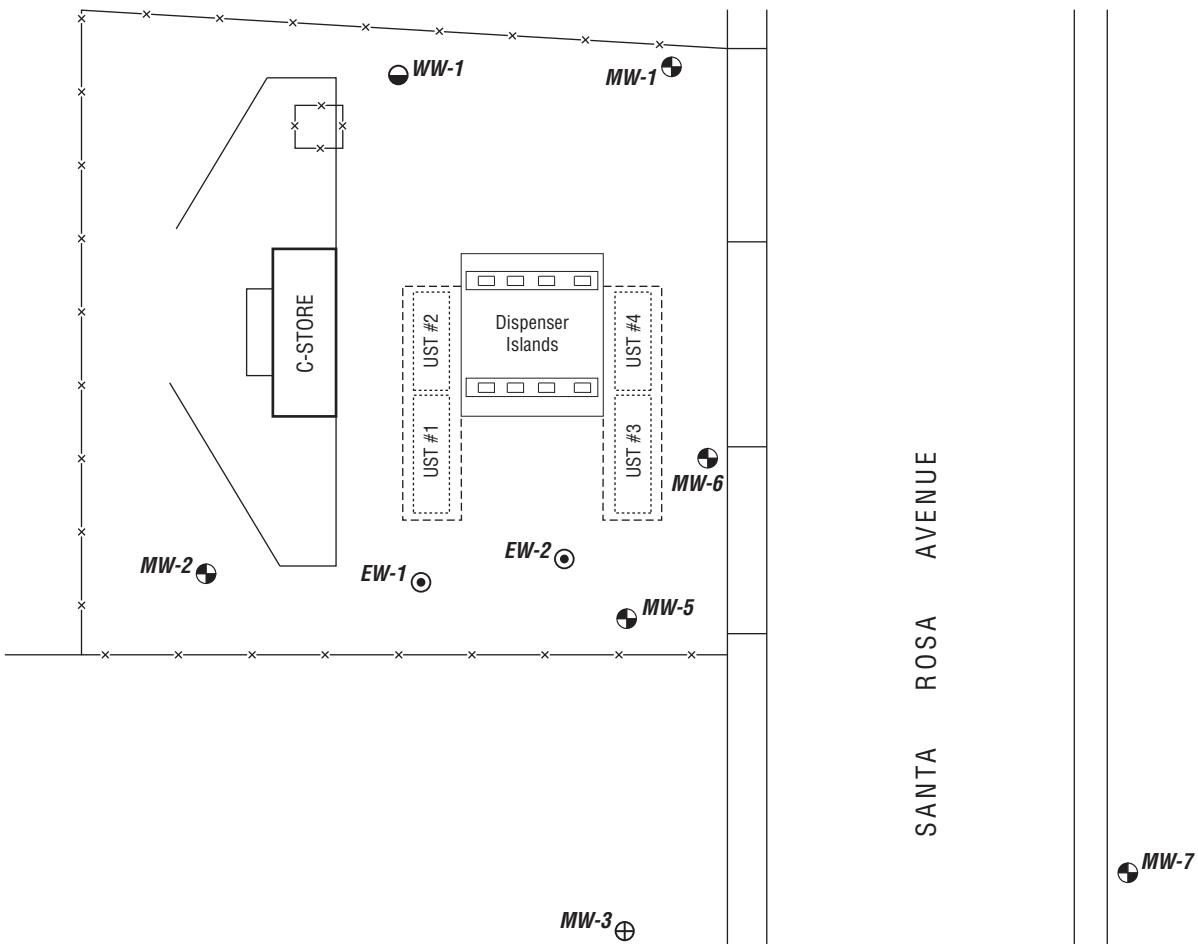
The laboratory results indicate that contaminant levels generally decreased in wells which historically had detectable hydrocarbon concentrations. In particular, TPHg, benzene and MTBE concentrations reported in groundwater samples collected from monitoring wells MW-5 and MW-6 (two wells located within closest proximity to UST #3) were the lowest concentrations ever reported from these two sample locations. The TPHg concentration in MW-5 decreased from 5.0 mg/l to 0.057 mg/l; the benzene concentration decreased from 430 ug/l to 1.3 ug/l, and the MTBE concentration decreased from 1,400 ug/l to 48 ug/l. Similar reductions were observed in the MW-6 groundwater sample (see Table 2).

TPHg (0.052 mg/l) and TCE (43 ug/l) concentrations reported in the WW-1 water sample are within historical ranges reported over the last five years, which indicates the concentrations of these compounds have stabilized and are not increasing with time.

Although significant reductions in contaminant concentrations were reported recently in the onsite monitoring wells, the site has not been sampled for almost two years prior to this monitoring event. Therefore, Geocon recommends continuing the quarterly groundwater monitoring program to assess contaminant concentration trends.

Three additional monitoring wells are scheduled to be constructed at 3219 Santa Rosa Avenue (the Redwood Credit Union property), and three additional direct-push borings are scheduled to be advanced along the sanitary sewer line located beneath Santa Rosa Avenue to assess whether this utility is providing a preferential pathway for the southward migration of petroleum hydrocarbon compounds. Results of this additional investigation coupled with previous investigations, pilot tests and quarterly groundwater monitoring data, should provide sufficient information towards selecting an appropriate remediation method.





0 50
Scale in Feet

LEGEND:

- MW-1** ● Approximate Groundwater Monitoring Well Location
- MW-3** ⊕ Approximate Destroyed Well Location
- EW-1** ○ Approximate Soil Vapor/Co-Extraction Well Location
- WW-1** ● Approximate Water Well Location
- []** Approximate Former UST Location

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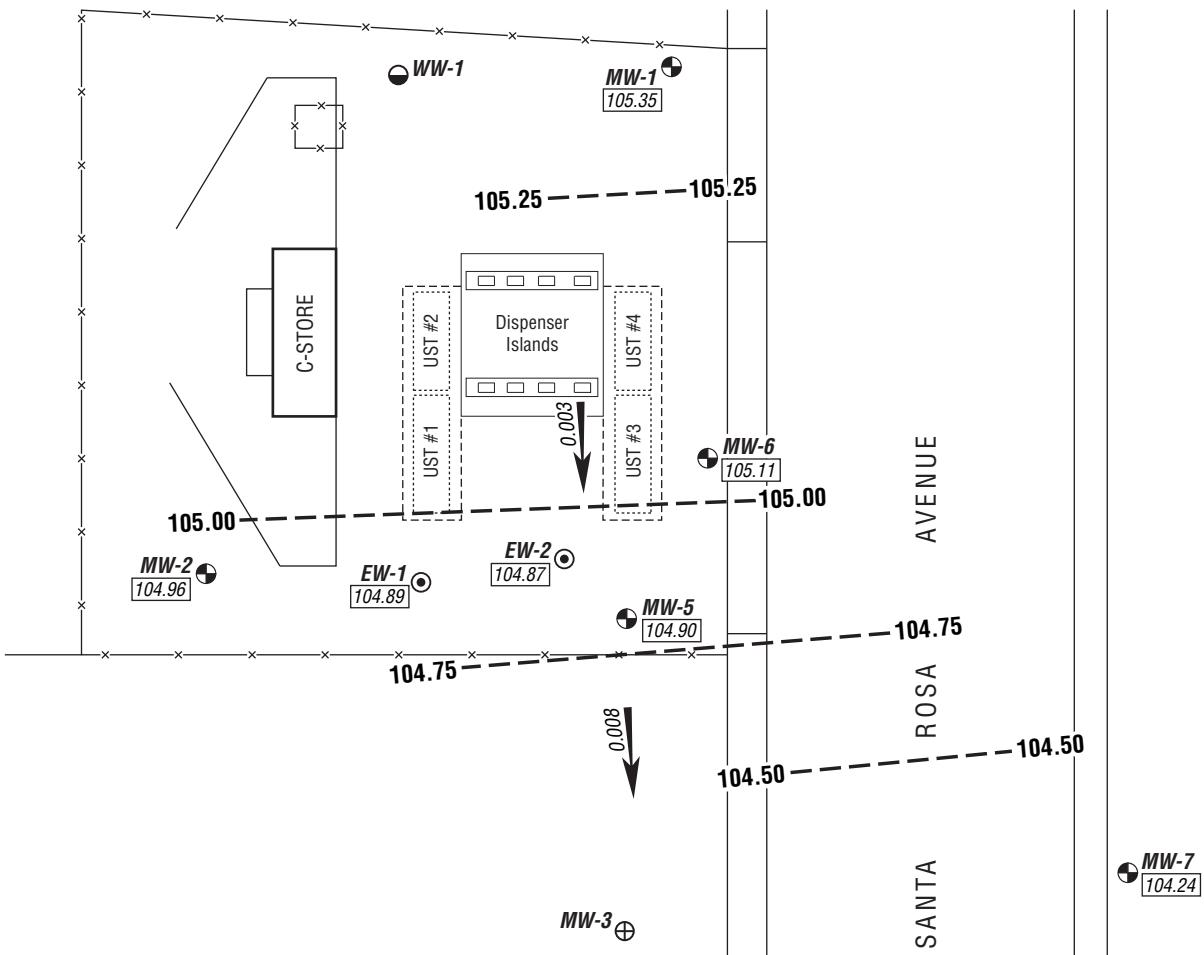
2356 RESEARCH DRIVE - LIVERMORE, CA. 94550
PHONE 925 371-5900 - FAX 925 371-5915



Gasamat Site

3185 Santa Rose Avenue
Santa Rosa, California

SITE PLAN



LEGEND:

MW-1 ● Approximate Groundwater Monitoring Well Location

MW-3 ⊕ Approximate Destroyed Well Location

EW-1 ○ Approximate Soil Vapor/Co-Extraction Well Location

WW-1 ● Approximate Water Well Location

[] Approximate Former UST Location

— — — Groundwater Elevation Contour (Interval = 0.50 Ft.)

[104.90] MSL Elevation of Groundwater Measured on 6/30/00

0.008
↓
Approximate Groundwater Direction & Gradient

0 50
Scale in Feet

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Gasamat Site

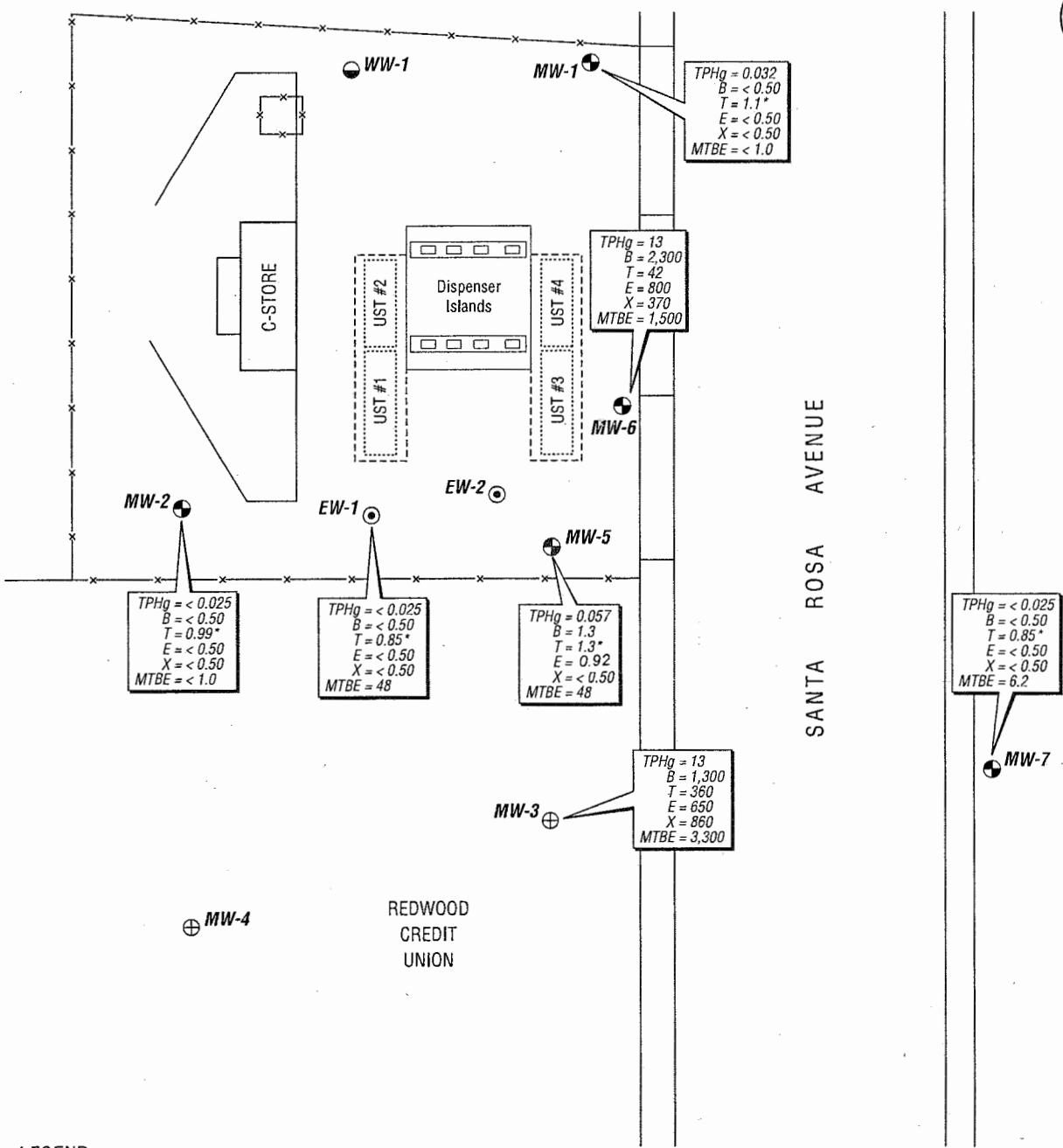
3185 Santa Rose Avenue
Santa Rosa, California

Groundwater Elevation Map – October 2005

E8299-06-01

November 2005

Figure 3



LEGEND:

MW-1 ● Approximate Groundwater Monitoring Well Location

MW-3 ⊕ Approximate Destroyed Well Location

EW-1 ○ Approximate Soil Vapor/Co-Extraction Well Location

WW-1 ● Approximate Water Well Location

[] Approximate Former UST Location

- Compound also reported in laboratory method blank sample

TPHg = Total Petroleum Hydrocarbons as Gasoline (mg/l)

B = Benzene (ug/l)

T = Toluene (ug/l)

E = Ethylbenzene (ug/l)

X = Xylenes (ug/l)

MTBE = Methyl tert-butyl ether (ug/l)

0 50
Scale in Feet

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Gasamat Site

3185 Santa Rose Avenue
Santa Rosa, California

Groundwater Sample Results - October 2005

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November 2005

Figure 4

Table 1
Well Construction Details
Gasamat #953
Santa Rosa, California

Location	Construction Date	Well Type	Borehole Diameter (inches)	Borehole Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack (feet)	Bentonite Seal (feet)	Cement Seal (feet)
MW-1	12/10/98	MW	8	25	2	7-25	5-25	4-5	0-4
MW-2	12/10/98	MW	8	25.5	2	7-25.5	5-25.5	4-5	0-4
MW-3*	12/10/98	MW	8	25	2	7-25	5-25	4-5	0-4
MW-4*	12/10/98	MW	8	25	2	7-25	5-25	4-5	0-4
MW-5	11/29/99	MW	8	25	2	7-25	5-25	4-5	0-4
MW-6	09/16/02	MW	8	23	2	8-23	6-23	5-6	0-5
MW-7	09/16/02	MW	8	22	2	8-22	6-22	5-6	0-5
EW-1	07/20/99	EW	10	25	4	7-25	5-25	4-5	0-4
EW-2	07/20/99	EW	10	25	4	7-25	5-25	4-5	0-4

Notes:

MW- Monitoring Well
 EW - Extraction Well

* - Abandoned in February 2004

Table 2
Historical Depth to Water and Groundwater Sample Results
Gasamat #983
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)	Change in Elevation (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
MW-1	12/15/1998	115.31	7.47	107.84	--	<0.05	<0.5	<0.5	<0.5	<0.5	7.4	--
	3/30/1999	115.31	6.19	109.12	-1.28	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/14/1999	115.31	10.44	104.87	4.25	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/23/2000	115.31	5.21	110.10	-5.23	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0
	5/24/2000	115.31	8.46	106.85	3.25	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	115.31	10.21	105.10	1.75	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/21/2000	115.31	9.98	105.33	-0.23	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/22/2001	115.31	6.12	109.19	-3.86	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	5/10/2001	115.31	9.45	105.86	3.33	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	8/16/2001	115.31	10.80	104.51	1.35	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	11/29/2001	115.31	6.96	108.35	-3.84	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	2/7/2002	115.31	8.57	106.74	1.61	<0.05	<0.3	<0.3	<0.3	<0.6	<5	--
	5/9/2002	115.31	9.18	106.13	0.61	<0.05	<0.5	<0.5	<0.5	<0.5	<5	--
	9/25/2002	115.31	10.84	104.47	1.66	<0.05	<0.5	<0.5	<0.5	<0.5	<5	--
	1/8/2003*	115.34	6.45	108.89	-4.42	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	3/25/2003	115.34	7.77	107.57	1.32	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	6/25/2003	115.34	9.41	105.93	1.64	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	10/21/2003	115.34	11.30	104.04	1.89	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	2/10/2004	115.34	6.85	108.49	-4.45	<0.05	<0.5	<0.5	<0.5	<0.5	<1	--
	10/20/2005	115.34	9.99	105.35	3.14	0.032	<0.50	*1.1	<0.50	<0.50	<1.0	--
MW-2	12/15/1998	114.29	4.98	109.31	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/30/1999	114.29	3.30	110.99	-1.68	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/14/1999	114.29	9.05	105.24	5.75	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/23/2000	114.29	2.37	111.92	-6.68	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0
	5/24/2000	114.29	7.40	106.89	5.03	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	114.29	9.93	104.36	2.53	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/21/2000	114.29	9.45	104.84	-0.48	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/22/2001	114.29	3.52	110.77	-5.93	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	5/10/2001	114.29	8.55	105.74	5.03	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	8/16/2001	114.29	10.86	103.43	2.31	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	11/29/2001	114.29	5.20	109.09	-5.66	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	2/7/2002	114.29	6.39	107.90	1.19	<0.05	<0.3	<0.3	<0.3	<0.6	<5	--
	5/9/2002	114.29	8.47	105.82	2.08	<0.05	<0.5	<0.5	<0.5	<1.5	<5	--
	9/25/2002	114.29	10.91	103.38	2.44	<0.05	<0.5	<0.5	<0.5	<1.0	<5	--
	1/8/2003*	115.16	4.35	110.81	-7.43	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--

Table 2
Historical Depth to Water and Groundwater Sample Results
Gasamat #953
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)	Change in Elevation (feet) (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
MW-2 continued	3/25/2003	115.16	6.32	108.84	1.97	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	---
	6/25/2003	115.16	8.88	106.28	2.56	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	---
	10/21/2003	115.16	11.50	103.66	2.62	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	---
	2/10/2004	115.16	5.27	109.89	-6.23	<0.05	<0.5	<0.5	<0.5	<1	<1	---
	10/20/2005	115.16	10.20	104.96	4.93	<0.025	*0.99	<0.50	<0.50	<1.0	<1.0	--
MW-3	12/15/1998	113.78	5.97	107.81	--	0.1	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
	3/30/1999	113.78	4.39	109.39	-1.58	0.5	54	2.4	23.0	6.3	64	--
	7/14/1999	113.78	8.93	104.85	4.54	1.1	67	4.0	3.5	<2.5	400	--
	2/23/2000	113.78	3.21	110.57	-5.72	0.26	<0.5	2.8	<0.5	<0.5	570	<1.0
	5/24/2000	113.78	6.92	106.86	3.71	0.64	13.0	<0.5	<0.5	<0.5	430	--
	8/22/2000	113.78	8.86	104.92	1.94	1.2	21	<0.5	<0.5	<0.5	740	--
	11/21/2000	113.78	8.64	105.14	-0.22	1.6	210	3.5	<2.5	<2.5	1,100	--
	2/22/2001	113.78	4.07	109.71	-4.57	<0.05	<0.5	<0.5	<0.5	<0.5	409	--
	5/10/2001	113.78	7.95	105.83	3.88	0.73	3.0	<2.5	<2.5	<2.5	677	--
	8/16/2001	113.78	9.75	104.03	1.80	0.86	160	<2.5	<2.5	<2.5	1,800	--
	11/29/2001	113.78	5.66	108.12	-4.09	<0.25	<2.5	<2.5	<2.5	<2.5	1,700	--
	2/7/2002	113.78	6.36	107.42	0.70	0.11	0.8	<0.3	<0.3	<0.6	320	<5
	5/9/2002	113.78	7.87	105.91	1.51	0.33	3.7	5.8	<0.5	<1.5	540	--
	9/25/2002	113.78	9.85	103.93	1.98	2.5	410	<20	<20	<40	2,100	--
	1/8/2003	113.84	4.62	109.22	-5.29	0.41	<2.5	3.5	<2.5	<5.0	700	--
	3/25/2003	113.84	6.32	107.52	1.70	0.32	1.4	<1.25	<1.25	<2.5	370	--
	6/25/2003	113.84	8.04	105.80	1.72	0.77	4.9	<2.5	<2.5	<5	470	--
	10/21/2003	113.84	10.39	103.45	2.35	1.0	31	<5	<5	<10	1,300	--
	2/10/2004	113.84	5.30	108.54	-5.09	0.21	<1	<1	<1	<2	210	--
MW-3 Abandoned in February 2004												
MW-4	12/15/1998	113.79	5.12	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/30/1999	113.79	3.31	110.48	-1.81	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/14/1999	113.79	8.99	104.80	5.68	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/23/2000	113.79	1.84	111.95	-7.15	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0
	5/24/2000	113.79	6.45	107.34	4.61	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	113.79	8.97	104.82	2.52	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/21/2000	113.79	8.84	104.95	-0.13	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/22/2001	113.79	2.81	110.98	-6.03	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	5/10/2001	113.79	7.82	105.97	5.01	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 2
Historical Depth to Water and Groundwater Sample Results
Gasamat #953
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)	Change in Elevation (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
MW-4												
MW-4 continued	8/16/2001	113.79	9.93	103.86	2.11	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	11/29/2001	113.79	5.28	108.51	-4.65	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	2/7/2002	113.79	5.64	108.15	0.36	<0.05	<0.3	<0.3	<0.3	<0.6	<5	<5
	5/9/2002	113.79	7.76	106.03	2.12	<0.05	<0.5	<0.5	<0.5	<1.5	--	--
	9/25/2002	113.79	10.08	103.71	2.32	<0.05	<0.5	<0.5	<0.5	<1.0	<5 ^a	--
	1/8/2003	113.80	3.94	109.86	-6.15	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	3/25/2003	113.80	5.59	108.21	1.65	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	6/25/2003	113.80	8.05	105.75	2.46	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	10/21/2003	113.80	10.50	103.30	2.45	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	2/10/2004	113.80	4.51	109.29	-5.99	<0.05	<0.5	<0.5	<0.5	<1	<1	--
MW-4 Abandoned in February 2004												
MW-5	2/23/2000	115.22	3.53	111.69	--	8.7	940	850	370	1,700	1,800	<1.0
	5/24/2000	115.22	7.85	107.37	4.32	1.9	160	160	77	420	160	--
	8/2/2000	115.22	10.10	105.12	2.25	1.9	240	120	42	230	310	--
	11/21/2000	115.22	9.62	105.60	-0.48	1.2	100	34	14	71	750	--
	2/22/2001	115.22	4.71	110.51	-4.91	8.2	715	886	259	1,280	6,460	--
	5/10/2001	115.22	8.89	106.33	4.18	6.7	558	747	175	913	2,360	--
	8/16/2001	115.22	10.91	104.31	2.02	1.1	120	53	19	110	950	--
	11/29/2001	115.22	6.16	109.06	-4.75	6.6	630	780	280	1,300	3,900	--
	2/7/2002	115.22	7.02	108.20	0.86	6.6	618	684	213	1,030	1,100	<5
	5/9/2002	115.22	8.81	106.41	1.79	6.0	650	630	220	1,070	1,100	--
	9/25/2002	115.22	10.98	104.24	2.17	1.5	240	76	43	120	360	--
	1/8/2003	115.22	5.21	110.01	-5.77	6.4	470	400	180	810	1,100	--
	3/25/2003	115.22	7.02	108.20	1.81	3.1	310	180	73	350	290	--
	6/25/2003	115.22	9.17	106.05	2.15	3.8	450	210	110	490	750	--
	10/21/2003	115.22	11.57	103.65	2.40	1.2	130	40	25	61	170	--
	2/10/2004	115.22	6.01	109.21	-5.56	5.0	430	200	100	420	1,400	--
	10/20/2005	115.22	10.32	104.90	4.31	0.057	1.3	*1.3	<0.50	0.92	48	--
MW-6	9/25/2002	115.04	10.67	104.37	--	18	1,300	420	510	660	22,000	--
	1/8/2003	115.04	5.88	109.16	-4.79	93	7,500	10,000	3,200	15,000	8,500	--
	3/25/2003	115.04	7.34	107.70	1.46	62	5,200	7,300	2,500	11,000	8,800	--
	6/25/2003	115.04	9.15	105.89	1.81	45	4,900	4,500	2,000	8,200	6,400	--
	10/21/2003	115.04	11.19	103.85	2.04	28	2,500	360	840	980	19,000	--
	2/10/2004	115.04	6.37	108.67	-4.82	83	4,400	6,000	2,400	9,900	11,000	--
	10/20/2005	115.04	9.93	105.11	3.56	13	2,300	42	800	370	1,500	--

Table 2
Historical Depth to Water and Groundwater Sample Results
Gasamat #953
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)	Change in Elevation (feet) (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
MW-7	9/25/2002	114.22	10.68	103.54	--	<0.05	<0.5	<0.5	<0.5	<1.0	7.9	--
	1/8/2003	114.22	7.27	106.95	-3.41	<0.05	<0.5	<0.5	<0.5	<1.0	4.5	--
	3/25/2003	114.22	7.89	106.33	0.62	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	6/25/2003	114.22	9.32	104.90	1.43	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	10/21/2003	114.22	11.26	102.96	1.94	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	2/10/2004	114.22	7.31	106.91	-3.95	<0.05	<0.5	<0.5	<0.5	<1	--	--
	10/20/2005	114.22	9.98	104.24	2.67	<0.025	*0.85	<0.50	<0.50	6.2	--	--
EW-1	12/15/1998	115.19	6.41	108.78	--	<0.05	<0.5	<0.5	<0.5	<0.5	57	<0.5
	3/30/1999	115.19	4.70	110.49	-1.71	<0.05	<0.5	<0.5	<0.5	0.6	<5.0	--
	7/14/1999	115.19	10.08	105.11	5.38	0.16	<0.5	<0.5	<0.5	<0.5	7.2	--
	2/23/2000	115.19	3.13	112.06	-6.95	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0
	5/24/2000	115.19	7.75	107.44	4.62	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	115.19	10.14	105.05	2.39	<0.05	<0.5	<0.5	<0.5	<0.5	26	--
	11/21/2000	115.19	9.55	105.64	-0.59	0.11	0.8	2.6	1.0	5.1	--	--
	2/22/2001	115.19	4.33	110.86	-5.22	<0.05	<0.5	<0.5	<0.5	<0.5	3.8	--
	5/10/2001	115.19	8.77	106.42	4.44	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	8/16/2001	115.19	10.91	104.28	2.14	0.36	1.0	<1.0	<1.0	96	--	--
	11/29/2001	115.19	5.73	109.46	-5.18	<0.05	<0.5	<0.5	<0.5	<0.5	5.3	--
	2/7/2002	115.19	6.82	108.37	1.09	<0.05	<0.3	<0.3	<0.3	<0.6	<5	--
	5/9/2002	115.19	8.69	106.50	1.87	<0.25	<2.5	<2.5	<2.5	<2.5	<25	--
	9/25/2002	115.19	10.94	104.25	2.25	0.22	3.8	0.7	<0.5	<1.0	17	--
	1/8/2003	115.19	5.87	109.32	-5.07	<0.05	<0.5	<0.5	<0.5	<1.0	2.5	--
	3/25/2003	115.19	6.81	108.38	0.94	<0.05	<0.5	<0.5	<0.5	<1.0	2.5	--
EW-2	6/25/2003	115.19	9.08	106.11	2.27	0.05	0.9	<0.5	<0.5	<1.0	2.7	--
	10/21/2003	115.19	11.59	103.60	2.51	0.4	8.4	<0.5	<0.5	<1.0	54.0	--
	2/10/2004	115.19	5.81	109.38	-5.78	0.1	1.3	<0.5	<0.5	<1	1.9	--
	10/20/2005	115.19	10.30	104.89	4.49	<0.025	*0.85	<0.50	<0.50	6.2	--	--
	12/15/1998	115.17	6.63	108.54	--	49	10,000	9,600	1,700	7,900	8,200	<10
	3/30/1999	115.17	4.99	110.18	-1.64	64	6,200	9,000	1,100	6,700	2,400	--
	7/14/1999	115.17	10.09	105.08	5.10	29	2,700	3,500	770	3,500	490	--
	2/23/2000	115.17	3.56	111.61	-6.53	44	3,800	8,200	1,700	10,000	1,200	<1.0
	5/24/2000	115.17	7.83	107.34	4.27	27	1,700	3,500	1,100	5,800	900	--
	8/2/2000	115.17	10.09	105.08	2.26	23	1,400	2,400	880	3,600	13,000	--
	11/21/2000	115.17	9.64	105.53	-0.45	69	1,600	2,300	860	3,300	79,000	--
	2/22/2001	115.17	4.76	110.41	-4.86	34	3,220	5,690	1,090	6,350	2,330	--
	5/10/2001	115.17	8.86	106.31	4.10	559	13.9	559	1,170	520	2,240	1,900

Table 2
Historical Depth to Water and Groundwater Sample Results
Gasamat #953
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)	Change in Elevation (feet) (feet)	TPhg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
EW-2 continued	8/16/2001	115.17	10.87	104.30	2.01	17	1,200	1,700	760	2,800	17,000	--
	11/29/2001	115.17	6.15	109.02	-4.72	23	2,100	3,600	760	4,600	3,400	--
	2/7/2002	115.17	7.04	108.13	0.89	15	894	1,640	490	2,460	1,600	<5
	5/9/2002	115.17	8.79	106.38	1.75	10	730	950	410	1,650	920	--
	9/25/2002	115.17	10.94	104.23	2.15	26	2,500	2,000	1,100	3,700	9,400	--
	1/8/2003	115.17	5.15	110.02	-5.79	19	1,500	2,300	470	3,000	450	--
	3/25/2003	115.17	7.04	108.13	1.89	5.8	520	350	160	1,300	44	--
	6/25/2003	115.17	9.17	106.00	2.13	6.9	400	570	370	1,200	430	--
	10/21/2003	115.17	11.55	103.62	2.38	14	950	380	650	1,300	14,000	--
	2/10/2004	115.17	6.01	109.16	-5.54	23	1,800	2,000	510	3,000	530	--
WW-1	10/20/2005	115.17	10.30	104.87	4.29	13	1,300	360	650	860	3,800	--
	2/23/2000	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	49
	5/24/2000	--	--	--	--	0.07	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	--	--	--	--	0.06	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/21/2000	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/22/2001	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	5/10/2001	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	8/16/2001	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	5.5	--
	11/29/2001	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	2/7/2002	--	--	--	--	<0.05	<0.3	<0.3	<0.3	<0.6	<5.0	46
WW-2 continued	5/9/2002	--	--	--	--	<0.05	<5.0	<5.0	<5.0	<5.0	<5.0	36
	09/25/02	--	--	--	--	0.071	<5.0	<5.0	<5.0	<5.0	<5	56
	01/08/03	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	36
	03/25/03	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	46
	06/25/03	--	--	--	--	0.086	<0.5	<0.5	3.8	<1.0	<1.0	36
	10/21/03	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<1.0	<0.001	33
	02/10/04	--	--	--	--	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	41
	10/20/05	--	--	--	--	0.052	<0.5	*0.84	<1.0	<1.0	<1.0	43

Notes:

* Compound also reported in laboratory method blank sample.

mg/l - milligrams per liter

ug/l - micrograms per liter

TOC - top of casing

amsl - above mean sea level

-- Data not collected

APPENDIX

A

MONITORING WELL SAMPLING DATA

Project Name: Gasamat – Santa Rosa	Project Number: E8299-06-01
Well No.: MW-1	Date: 10/20/05
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 25 feet	Screened Casing Length: 18'
Well Elevation: 115.34 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 9.99 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.4 Gal.	Volumes Purged: 3
Start Purging Time: 1151	End Purging Time: 1204
Total Time: 13 min.	Flow Gauge: to
Total Volume Purged: ~7.2 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 10.32 feet	Time: 1207
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1155	26.0	647	6.43	2.4
1200	24.3	528	6.42	4.8
1204	23.5	539	6.43	7.2
comments: Clear sample. No odor.				

MONITORING WELL SAMPLING DATA

Project Name: Gasamat - Santa Rosa	Project Number: E8299-06-01
Well No.: MW-2	Date: 10/20/05
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 25.5 feet	Screened Casing Length: 18.5
Well Elevation: 115.16 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 10.20 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.4 Gal.	Volumes Purged: 3+
Start Purging Time: 1218	End Purging Time: 1231
Total Time: 13 min.	Flow Gauge: to
Total Volume Purged: 7.2+ Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 10.78 feet	Time: 1232
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1222	25.5	1044	6.37	2.4
1226	23.3	1115	6.36	4.8
1231	22.2	1141	6.36	7.2
comments: Clear sample. No odor.				

MONITORING WELL SAMPLING DATA

Project Name: Gasamat – Santa Rosa	Project Number: E8299-06-01
Well No.: MW-5	Date: 10/20/05
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 25 feet	Screened Casing Length:
Well Elevation: 115.22 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 10.32 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.3 Gal.	Volumes Purged: 3+
Start Purging Time: 1245	End Purging Time: 1256
Total Time: 9 min.	Flow Gauge: to
Total Volume Purged: 6.9+ Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 10.67 feet	Time: 1258
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1247	23.6	573	6.72	2.3
1251	22.1	558	6.83	4.6
1256	21.1	563	6.86	6.9
comments: Clear sample. Petroleum odor.				

MONITORING WELL SAMPLING DATA

Project Name: Gasamat – Santa Rosa	Project Number: E8299-06-01
Well No.: MW-6	Date: 10/20/05
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 23 feet	Screened Casing Length: 15
Well Elevation: 115.04 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 9.93 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.1 Gal.	Volumes Purged: 3+
Start Purging Time: 1312	End Purging Time: 1323
Total Time: 11 min.	Flow Gauge: to
Total Volume Purged: 6.3+ Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 11.68 feet	Time: 1325
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1315	25.2	707	6.53	2.1
1319	23.2	693	6.54	4.2
1323	22.4	692	6.56	6.3
comments: Grayish blue water. Petroleum odor.				

MONITORING WELL SAMPLING DATA

Project Name: Gasamat – Santa Rosa	Project Number: E8299-06-01
Well No.: MW-7	Date: 10/20/05
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 22 feet	Screened Casing Length:
Well Elevation: 114.22 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 9.98 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 1.9 Gal.	Volumes Purged:
Start Purging Time: 1502	End Purging Time: 1512
Total Time: 10 min.	Flow Gauge: to
Total Volume Purged: 5.7+ Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 12.12 feet	Time: 1515
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1505	22.2	417	6.66	1.9
1508	21.2	451	6.80	3.8
1512	20.8	496	6.77	5.7
comments: Clear sample. No odor.				

MONITORING WELL SAMPLING DATA

Project Name: Gasamat – Santa Rosa	Project Number: E8299-06-01
Well No.: EW-1	Date: 10/20/05
Well Diameter: 4 in.	Field Personnel: John Loye
Casing Length: 25 feet	Screened Casing Length: 18
Well Elevation: 115.19 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 10.30 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 9.5 Gal.	Volumes Purged:
Start Purging Time: 1341	End Purging Time: 1401
Total Time: 20 min.	Flow Gauge: to
Total Volume Purged: ~30 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 10.90 feet	Time: 1404
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Centrifugal Pump		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPH _g , BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1349	23.6	546	6.76	9.5
1355	23.4	543	6.68	19
1401	23.6	541	6.61	28.5
comments: Clear water. No odor. Set intake ~12'.				

MONITORING WELL SAMPLING DATA

Project Name: Gasamat – Santa Rosa	Project Number: E8299-06-01
Well No.: EW-2	Date: 10/20/05
Well Diameter: 4 in.	Field Personnel: John Love
Casing Length: 25 feet	Screened Casing Length:
Well Elevation: 115.17 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 10.30 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 9.5 Gal.	Volumes Purged: 3+
Start Purging Time: 1422	End Purging Time: 1437
Total Time: 15 min.	Flow Gauge: to
Total Volume Purged: 28.5+ Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 10.62 feet	Time: 1440
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Centrifugal Pump		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1428	26.7	591	6.60	9.5
1433	24.6	589	6.68	19
1437	24.0	588	6.72	28.5
comments: Clear sample. Some organics in water. Petroleum odor.				

APPENDIX

B

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

John Love
Geocon Consultants
2356 Research Drive
Livermore, CA 94550

Certificate Number: 45923
Issued: 11/04/2005

Project Number: E8299-06-01
Project Name: Gasmat Santa Rosa

Order / Lab Number: 45923
Global ID: T0609700489

Certificate of Analysis - Final Report

On October 21, 2005, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	EDF EPA 8260B EPA 624 TPH as Gasoline - GC-MS	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Erin Cunniffe
Laboratory Operations Manager

Entech Analytical Labs, Inc.

334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Geocon Consultants
2356 Research Drive
Livermore, CA 94550
Attn: John Love

Date Received: 10/21/2005 3:51:47 PM

Project Number: E8299-06-01
Project Name: Gasmat Santa Rosa
GlobalID: T0609700489

Certificate of Analysis - Data Report

Sample Collected by: Client (J. Love)

Lab #: 45923-001 Sample ID: MW-1 Matrix: Liquid Sample Date: 10/20/2005 12:07 PM

PA 5030C EPA 8260B EPA 624										8260 Petroleum	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch		
benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B		
oluene	1.1	B	1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B		
ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B		
lylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B		
tethyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/24/2005	WM2051024B		

Surrogate Surrogate Recovery Control Limits (%)

Analyzed by: TAF

4-Bromofluorobenzene 89.7 70 - 130 Reviewed by: MaiChiTu
Dibromofluoromethane 94.9 70 - 130
Toluene-d8 96.6 70 - 130

B = This analyte was found in the associated Method Blank.

PA 5030C GC-MS										TPH as Gasoline - GC-MS	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch		
TPH as Gasoline	32		1.0	25	µg/L	N/A	N/A	10/24/2005	WM2051024B		
TPH as Gasoline reported value is a result of discrete peaks that are not typical of TPH as Gasoline but are within the gasoline quantitation range.											

Surrogate Surrogate Recovery Control Limits (%)

Analyzed by: TAF

4-Bromofluorobenzene 98.3 70 - 130 Reviewed by: MaiChiTu
Dibromofluoromethane 105 70 - 130
Toluene-d8 99.4 70 - 130

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Attn: John Love

Date Received: 10/21/2005 3:51:47 PM

Project Number: E8299-06-01
Project Name: Gasmat Santa Rosa
GlobalID: T0609700489

Certificate of Analysis - Data Report

Sample Collected by: Client (J. Love)

Lab #: 45923-002 Sample ID: MW-2 Matrix: Liquid Sample Date: 10/20/2005 12:32 PM

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
oluene	0.99	B	1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
lylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
tethyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/24/2005	WM2051024B

Surrogate Surrogate Recovery Control Limits (%) Analyzed by: TAF

4-Bromofluorobenzene	89.8	70	-	130	Reviewed by: MaiChiTu
Dibromofluoromethane	96.1	70	-	130	
Toluene-d8	95.0	70	-	130	

B = This analyte was found in the associated Method Blank.

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	10/24/2005	WM2051024B
Surrogate	Surrogate Recovery			Control Limits (%)				Analyzed by: TAF	
4-Bromofluorobenzene	98.4		70	-	130			Reviewed by: MaiChiTu	
Dibromofluoromethane	106		70	-	130				
Toluene-d8	97.8		70	-	130				

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Attn: John Love

Date Received: 10/21/2005 3:51:47 PM

Project Number: E8299-06-01
Project Name: Gasmat Santa Rosa
GlobalID: T0609700489

Certificate of Analysis - Data Report

Sample Collected by: Client (J. Love)

Lab #: 45923-003 Sample ID: MW-5 Matrix: Liquid Sample Date: 10/20/2005 12:58 PM

EPA 5030C EPA 8260B EPA 624		8260 Petroleum								
Parameter		Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
benzene		1.3		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
oluene		1.3	B	1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
ethyl Benzene		ND		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
lylenes, Total		0.92		1.0	0.50	µg/L	N/A	N/A	10/24/2005	WM2051024B
ethyl-t-butyl Ether		48		1.0	1.0	µg/L	N/A	N/A	10/24/2005	WM2051024B

Surrogate Surrogate Recovery Control Limits (%)

Analyzed by: TAF

4-Bromofluorobenzene 90.7 70 - 130 Reviewed by: MaiChiTu

Dibromofluoromethane 96.1 70 - 130

Toluene-d8 95.8 70 - 130

B = This analyte was found in the associated Method Blank.

Lab #: 45923-004 Sample ID: MW-6 Matrix: Liquid Sample Date: 10/20/2005 1:25 PM

EPA 5030C GC-MS		TPH as Gasoline - GC-MS								
Parameter		Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
PH as Gasoline		57		1.0	25	µg/L	N/A	N/A	10/24/2005	WM2051024B
Surrogate	Surrogate Recovery	Control Limits (%)						Analyzed by: TAF		
4-Bromofluorobenzene	99.5	70	-	130						Reviewed by: MaiChiTu
Dibromofluoromethane	106	70	-	130						
Toluene-d8	98.7	70	-	130						

Lab #: 45923-004 Sample ID: MW-6 Matrix: Liquid Sample Date: 10/20/2005 1:25 PM

EPA 5030C EPA 8260B EPA 624		8260 Petroleum								
Parameter		Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
benzene		2300		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
oluene		42		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
ethyl Benzene		800		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
lylenes, Total		370		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
ethyl-t-butyl Ether		1500		50	50	µg/L	N/A	N/A	10/25/2005	WM2051025
Surrogate	Surrogate Recovery	Control Limits (%)						Analyzed by: TAF		
4-Bromofluorobenzene	90.6	70	-	130						Reviewed by: xbian
Dibromofluoromethane	96.5	70	-	130						
Toluene-d8	95.3	70	-	130						

EPA 5030C GC-MS		TPH as Gasoline - GC-MS								
Parameter		Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
PH as Gasoline		13000		50	1200	µg/L	N/A	N/A	10/25/2005	WM2051025
Surrogate	Surrogate Recovery	Control Limits (%)						Analyzed by: TAF		
4-Bromofluorobenzene	99.4	70	-	130						Reviewed by: xbian
Dibromofluoromethane	107	70	-	130						
Toluene-d8	98.1	70	-	130						

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

11/4/2005 7:13:13 PM - ECunniffe

Entech Analytical Labs, Inc.

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Attn: John Love

Date Received: 10/21/2005 3:51:47 PM

Project Number: E8299-06-01
Project Name: Gasmat Santa Rosa
GlobalID: T0609700489

Certificate of Analysis - Data Report

Sample Collected by: Client (J. Love)

Lab #: 45923-005 Sample ID: EW-1 Matrix: Liquid Sample Date: 10/20/2005 2:04 PM

PA 5030C EPA 8260B EPA 624			8260 Petroleum						
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
oluene	0.85	B	1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
ylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
ethyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/25/2005	WM2051024B

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: TAF
4-Bromofluorobenzene	90.1	70 - 130	Reviewed by: MaiChiTu
Dibromofluoromethane	95.4	70 - 130	
Toluene-d8	94.9	70 - 130	

B = This analyte was found in the associated Method Blank.

PA 5030C GC-MS			TPH as Gasoline - GC-MS						
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
PH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	10/25/2005	WM2051024B
Surrogate Surrogate Recovery Control Limits (%)									
4-Bromofluorobenzene	98.7		70	- 130				Reviewed by: MaiChiTu	
Dibromofluoromethane	106		70	- 130					
Toluene-d8	97.7		70	- 130					

Lab #: 45923-006 Sample ID: EW-2 Matrix: Liquid Sample Date: 10/20/2005 2:40 PM

PA 5030C EPA 8260B EPA 624			8260 Petroleum						
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
benzene	1300		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
oluene	360		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
ethyl Benzene	650		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
ylenes, Total	860		50	25	µg/L	N/A	N/A	10/25/2005	WM2051025
ethyl-t-butyl Ether	3800		50	50	µg/L	N/A	N/A	10/25/2005	WM2051025

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: TAF
4-Bromofluorobenzene	89.2	70 - 130	Reviewed by: xbian
Dibromofluoromethane	95.8	70 - 130	
Toluene-d8	95.0	70 - 130	

PA 5030C GC-MS			TPH as Gasoline - GC-MS						
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
PH as Gasoline	13000		50	1200	µg/L	N/A	N/A	10/25/2005	WM2051025
Surrogate Surrogate Recovery Control Limits (%)									
4-Bromofluorobenzene	97.8		70	- 130				Reviewed by: xbian	
Dibromofluoromethane	106		70	- 130					
Toluene-d8	97.8		70	- 130					

Detection Limit = Detection Limit for Reporting.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

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Entech Analytical Labs, Inc.

334 Victor Court , Santa Clara, CA 95054

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Geocon Consultants
2356 Research Drive
Livermore, CA 94550
Attn: John Love

Date Received: 10/21/2005 3:51:47 PM

Project Number: E8299-06-01
Project Name: Gasmat Santa Rosa
GlobalID: T0609700489

Certificate of Analysis - Data Report

Sample Collected by: Client (J. Love)

ab # : 45923-007		Sample ID: MW-7		Matrix: Liquid		Sample Date: 10/20/2005 3:15 PM		8260 Petroleum				
Parameter	PA 5030C	EPA 8260B	EPA 624	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
benzene				ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
oluene				0.85	B	1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
ethyl Benzene				ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
ylenes, Total				ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005	WM2051024B
ethyl-t-butyl Ether				6.2		1.0	1.0	µg/L	N/A	N/A	10/25/2005	WM2051024B

Surrogate Surrogate Recovery Control Limits (%)

Analyzed by: TAF

4-Bromofluorobenzene 89.3 70 - 130 Reviewed by: MaiChiTu

Dibromofluoromethane 97.3 70 - 130

Toluene-d8 96.1 70 - 130

B = This analyte was found in the associated Method Blank.

Parameter	PA 5030C	GC-MS	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	TPH as Gasoline - GC-MS
PH as Gasoline			ND		1.0	25	µg/L	N/A	N/A	10/25/2005	WM2051024B	
Surrogate Surrogate Recovery Control Limits (%)												
4-Bromofluorobenzene			97.9		70	-	130					Analyzed by: TAF
Dibromofluoromethane			108		70	-	130					Reviewed by: MaiChiTu
Toluene-d8			99.0		70	-	130					

Entech Analytical Labs, Inc.

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Attn: John Love

Date Received: 10/21/2005 3:51:47 PM

Project Number: E8299-06-01
Project Name: Gasmat Santa Rosa
GlobalID: T0609700489

Certificate of Analysis - Data Report

Sample Collected by: Client (J. Love)

Lab #:	45923-008	Sample ID:	WW-1	Matrix:	Liquid	Sample Date:	10/20/2005	2:45 PM
PA 5030C EPA 8260B EPA 624								
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date
benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005
oluene	0.84	B	1.0	0.50	µg/L	N/A	N/A	10/25/2005
ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005
lenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/25/2005
ethyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/25/2005
richloroethene	43		1.0	0.50	µg/L	N/A	N/A	10/25/2005
8260 Petroleum								

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: TAF
4-Bromofluorobenzene	89.3	70 - 130	Reviewed by: MaiChiTu
Dibromofluoromethane	92.8	70 - 130	
Toluene-d8	96.0	70 - 130	

B = This analyte was found in the associated Method Blank.

PA 5030C GC-MS	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	52		1.0	25	µg/L	N/A	N/A		WM2051024B
TPH as Gasoline reported value is a result of discrete peaks that are not typical of TPH as Gasoline but are within the gasoline quantitation range.									
Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: TAF						

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: TAF
4-Bromofluorobenzene	97.9	70 - 130	Reviewed by: MaiChiTu
Dibromofluoromethane	103	70 - 130	
Toluene-d8	98.8	70 - 130	

detection Limit = Detection Limit for Reporting.

/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

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3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2051024B

Validated by: MaiChiTu - 10/26/05

QC Batch Analysis Date: 10/24/2005

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Toluene	0.81	1	0.50	µg/L
Trichloroethene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	89.0	70 - 130
Dibromofluoromethane	91.7	70 - 130
Toluene-d8	95.0	70 - 130

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2051024B

Reviewed by: MaiChiTu - 10/26/05

QC Batch ID Analysis Date: 10/24/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	22.2	µg/L	111	70 - 130
Benzene	<0.50	20	19.3	µg/L	96.7	70 - 130
Chlorobenzene	<0.50	20	22.3	µg/L	111	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.2	µg/L	90.9	70 - 130
Toluene	0.81	20	19.6	µg/L	97.8	70 - 130
Trichloroethene	<0.50	20	22.1	µg/L	111	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	90.9	70 - 130
Dibromofluoromethane	94.9	70 - 130
Toluene-d8	94.3	70 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	21.5	µg/L	108	3.0	25.0	70 - 130
Benzene	<0.50	20	19.2	µg/L	96.2	0.47	25.0	70 - 130
Chlorobenzene	<0.50	20	22.5	µg/L	112	0.89	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.3	µg/L	86.4	5.0	25.0	70 - 130
Toluene	0.81	20	19.5	µg/L	97.7	0.087	25.0	70 - 130
Trichloroethene	<0.50	20	21.9	µg/L	110	0.83	25.0	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	90.4	70 - 130
Dibromofluoromethane	92.6	70 - 130
Toluene-d8	94.4	70 - 130

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Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2051024B

Reviewed by: MaiChiTu - 10/27/05

QC Batch ID Analysis Date: 10/24/2005

MS Sample Spiked: 45911-006

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Benzene	ND	20	19.5	µg/L	10/24/2005	97.6	70 - 130
Methyl-t-butyl Ether	ND	20	18.8	µg/L	10/24/2005	94.2	70 - 130
Toluene	0.655	20	20.5	µg/L	10/24/2005	99.1	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	90.7	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8	95.3	70 - 130

MSD Sample Spiked: 45911-006

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	ND	20	19.7	µg/L	10/24/2005	98.3	0.72	25.0	70 - 130
Methyl-t-butyl Ether	ND	20	19.0	µg/L	10/24/2005	94.8	0.62	25.0	70 - 130
Toluene	0.655	20	20.2	µg/L	10/24/2005	97.9	1.2	25.0	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	90.5	70 - 130
Dibromofluoromethane	99.7	70 - 130
Toluene-d8	94.7	70 - 130

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Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2051025

Validated by: MaiChiTu - 10/25/05

QC Batch Analysis Date: 10/25/2005

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	89.1	70 - 130
Dibromofluoromethane	93.4	70 - 130
Toluene-d8	95.7	70 - 130

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2051025

Reviewed by: MaiChiTu - 10/25/05

QC Batch ID Analysis Date: 10/25/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	22.8	µg/L	114	70 - 130
Benzene	<0.50	20	20.0	µg/L	99.9	70 - 130
Chlorobenzene	<0.50	20	22.9	µg/L	115	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.0	µg/L	90.1	70 - 130
Toluene	<0.50	20	20.1	µg/L	101	70 - 130
Trichloroethene	<0.50	20	22.9	µg/L	115	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	89.9	70 - 130
Dibromofluoromethane	94.2	70 - 130
Toluene-d8	93.9	70 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	23.2	µg/L	116	1.5	25.0	70 - 130
Benzene	<0.50	20	20.2	µg/L	101	1.3	25.0	70 - 130
Chlorobenzene	<0.50	20	23.2	µg/L	116	1.1	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.1	µg/L	90.4	0.38	25.0	70 - 130
Toluene	<0.50	20	20.4	µg/L	102	1.6	25.0	70 - 130
Trichloroethene	<0.50	20	22.9	µg/L	114	0.17	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	89.4	70 - 130
Dibromofluoromethane	93.2	70 - 130
Toluene-d8	94	70 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2051024B

Validated by: MaiChiTu - 10/26/05

QC Batch Analysis Date: 10/24/2005

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	97.5	70 - 130
Dibromofluoromethane	102	70 - 130
Toluene-d8	97.8	70 - 130

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2051024B

Reviewed by: MaiChiTu - 10/26/05

QC Batch ID Analysis Date: 10/24/2005

LCS	Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
	TPH as Gasoline	<25	250	270	µg/L	108	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	99.5	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8	98.1	70 - 130

LCSD	Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
	TPH as Gasoline	<25	250	260	µg/L	104	3.9	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	99.4	70 - 130
Dibromofluoromethane	99.9	70 - 130
Toluene-d8	98.8	70 - 130

Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2051025

Validated by: MaiChiTu - 10/25/05

QC Batch Analysis Date: 10/25/2005

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	97.7	70 - 130
Dibromofluoromethane	104	70 - 130
Toluene-d8	98.5	70 - 130

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2051025

Reviewed by: MaiChiTu - 10/25/05

QC Batch ID Analysis Date: 10/25/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	250	243	µg/L	97.3	65 - 135

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	100	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8	103	70 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	250	265	µg/L	106	8.7	25.0	65 - 135

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	99.6	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8	98.4	70 - 130

Entech Analytical Labs, Inc. Chain of Custody / Analysis Request

3334 Victor Court
 Santa Clara, CA 95054
 (408) 588-0200
 (408) 588-0201 - Fax

Attention to:	John Love	Phone No.:	(925) 371-5900	Purchase Order No.:		Invoice to: (If Different)	Phone:	
Company Name:	Geocon Consultants	Fax No.:	(925) 371-5915	Project No.:	E 8294-06-01	Company:	Quote No.:	
Mailing Address:	2356 Research Drive City: Livermore	Email Address:	love@geoconinc.com	Project Name:	Gessmat Santa Rosa	Billing Address: (If Different)		
State:	CA	Zip Code:	94550	Project Location:		City:		
State:		Zip Code:		Project Location:		City:		
Sampler:	J. Love	Field Org. Code:		Turn Around Time		Remarks		
Global ID:	TG609700489			<input type="checkbox"/> Same Day	1 Day			
				<input type="checkbox"/> 2 Day	3 Day			
				<input type="checkbox"/> 4 Day	5 Day			
				<input checked="" type="checkbox"/> 10 Day				
Order ID:		Sample		No. of Containers				
Client ID / Field Point	H 3923-00	Lab. No.	Date	Time	Matrix			
MW-1	002	10/20/05	12:07					
MW-2	003		12:32					
MW-5	004		12:58					
MW-6	005		13:25					
EW-1	006		14:04					
EW-2	007		14:40					
MW-7	007		15:15					
WW-1	008	↓	14:45					
Received by:	<i>[Signature]</i>	Date:	10/21/05	Time:	14:01	Special Instructions or Comments		
Received by:	<i>[Signature]</i>	Date:	10/21/05	Time:	15:02			
Received by:	<i>[Signature]</i>	Date:	10/21/05	Time:	15:02			
Received by:	<i>[Signature]</i>	Date:	10/21/05	Time:	15:02			
Received by:	<i>[Signature]</i>	Date:	10/21/05	Time:	15:02			
Received by:	<i>[Signature]</i>	Date:	10/21/05	Time:	15:02			
Metals:	Al, As, Sb, Ba, Be, Bi, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Ti, V, W, Zr							
<input type="checkbox"/> EDD Report <input checked="" type="checkbox"/> EDF Report <input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPN-13 <input type="checkbox"/> CAM-117								

APPENDIX

C

Mr. John Love
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
FAX: 925-371-5915

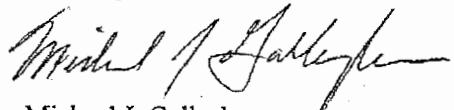
Subject: Fourth Quarter 2005 Groundwater Monitoring Report
Former Gasamat #953
3185 Santa Rosa Avenue
Santa Rosa, California

Report Date: November 30, 2005

Dear Mr. Love:

I have reviewed and approved the above-referenced report for the Former Gasamat #953 site. Please submit the report to the Regional Water Quality Control Board – North Coast Region, and the County of Sonoma Health Services Department. Should either of the agencies require it, I am prepared to declare, under penalty of perjury, that to the best of my knowledge, the information contained in the subject report is true and correct.

Sincerely,



Michael J. Gallagher

Date: 12/1/05